



GSMA Network Settings Exchange User Guide for

Original Equipment Manufacturer

Version 1.03

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GSMA Network Settings Exchange OEM User Manual v1.03 November 2019

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Document History

Version	Date	Description
V1.0	22 September 2019	First release of GSMA Network Settings Exchange platform

Document References

TS.32	View document here
TS.36	View document here

Abbreviations

NSX	GSMA Network Settings Exchange
MNO	Mobile Network Operator
MVNO	Mobile Virtual Network Operator
OEM	Original Equipment Manufacturer
IMEI Db	IMEI Database

Introduction

The GSMA Network Settings Exchange as defined in TS.36 is to be used to enable the efficient transfer of settings, for the automatic technical configuration of mobile devices, not sold through the MNO sales channels, to ensure that the device can provide the customer with the services being promoted and offered by the MNO.

GSMA Network Settings Exchange will contain settings from all mobile network operators (MNOs), including mobile virtual network operators (MVNOs) and provide them to all Original Equipment Manufacturers (OEMs) in order to allow for the appropriate customisation of their devices, through one database.

This document helps an OEM user to register for an account and understand how to access the settings uploaded by the MNOs and MVNOs.

OEM Registration

The OEMs must register in the GSMA Network Settings Exchange to access the network settings shared by the MNOs and MVNOs.

Follow the steps below to register for an account if you do not have a GSMA IMEI Db account already for TAC allocation purposes.

Note: If you are a TAC user having an account with IMEI Database please go to the section [TAC User Access to NSX](#) in this document

To get started, enter the IMEI Database URL <https://imeidb.gsma.com> in your web browser. Click GSMA Network Settings Exchange banner displayed below the header section. This will navigate to the NSX home page.

GSMA **IMEI DATABASE** [Contact](#)

The world's first network settings hub for smooth, simple sharing of network settings information for mobile devices.
GSMA NETWORK SETTINGS EXCHANGE

The GSMA Network Settings Exchange has been developed in collaboration with manufacturers and network operators around the world, through the GSMA Terminal Steering (TS) Group.

An industry first, this new service provides operators' one location to distribute their latest network settings information to manufacturers around the world. This allows accurate configuration of non-provisioned / open market mobile devices to ensure they can support the customer with the services being promoted and offered by the MNO / MVNO from the first insertion of a SIM.

User ID

Password

[Forgot Password?](#) **LOGIN**

SERVICE BENEFITS

- ONE GLOBAL LOCATION**
Seamless access to the latest network settings for device manufacturers.
- TIME EFFICIENT**
No need to share network settings with individual device manufacturers.
- OPTIMIZED CUSTOMER EXPERIENCE**
Customers receive the right settings, even if the device is not provisioned to a network.

HOW IT WORKS

- 1.**
Operators upload their latest settings to the GSMA Network Settings Exchange platform.
- 2.**
Manufacturers visit one location for seamless access to the latest network settings to host on their servers.
- 3.**
When non-provisioned devices access these settings, they will be configured correctly.

ONLINE APPLICATION PROCESS

- MOBILE NETWORK OPERATORS (MNOs) / MOBILE VIRTUAL NETWORK OPERATORS (MVNOs)**
Select appropriate licence type
APPLY NOW
- OEMs / CHIPSET PROVIDER**
Submit application form
CREATE ACCOUNT
- PDF DOWNLOAD**

MORE INFORMATION

Figure 1: GSMA Network Settings Exchange home page

- You will be navigated to the GSMA Network Settings Exchange homepage
- Click the "Create Account" button in the "OEMs / CHIPSET PROVIDER" section
- A pop-up alert will ask you to confirm whether you are an existing TAC user in the IMEI Database

- d. If you select yes, you will be redirected to the IMEI Database homepage to login with your TAC account details.
- e. If you select No, the registration form will be displayed as shown in Figure 2 below:

Figure 2: OEM Organisation Registration form

- f. Provide the mandatory details and submit the form.
- g. Once you submit the form, you then need to read, sign and accept the GSMA Network Settings Exchange Terms of Use.
- h. Providing the signee details is the way of signing / accepting the Terms of Use.

Figure 3: OEM Organisation Terms and Condition signing page

- i. If there are any errors with the information provided, the system will alert you and allow you to make revisions. Resolve any issues identified by the system and click submit.
- j. Once the form is complete, click submit to complete the registration.

On successful completion of the registration, the main contact will receive a system generated e-mail acknowledgement. Your registration details will be reviewed and approved by the GSMA.

On approval, an organisation ID will be generated and your GSMA Network Settings Exchange account will be created. The organisation ID along with the username and system generated password will be sent as an email to the Main Contact of the organisation and to all the registered users. Each user can then login using the username and the password provided.

Login for the first time

On the first login after the registration, you will be prompted to change the system generated password provided at the time of registration as shown in Figure: 4 below.

The system will allow access to other functions only after successfully changing the password and setting Security Question & Answers.

The screenshot displays two sequential user interface screens. The top screen is titled 'Change Password' and features a lock icon. It contains a message: 'This is your first login. Change the temporary password provided to you.' Below this is a 'Password Policy' section with a bulleted list of requirements: 'At least 8 characters in length. Maximum 15.', 'Contains at least 1 lowercase character (a through z)', 'Contains at least 1 uppercase character (A through Z)', 'Contains at least 1 numeric digit', and 'Contains at least 1 non-alphanumeric character (!,~,^,#,@,%,*,&,(,),+,:/,_-~)'. At the bottom of this screen are two input fields labeled 'Enter New Password' and 'Confirm New Password'. The bottom screen is titled 'Security Questions' and features a shield icon. It contains a message: 'Create 5 mandatory questions and answers which you can remember. The system will use a question to authenticate when you login.' Below this are two columns of input fields: 'Security Questions' and 'Security Answers', each with five rows. At the bottom center of this screen is an orange 'Confirm' button.

Figure 4: Change Password & Security Questions

Subsequent Login

Enter your username and password in the GSMA Network Settings Exchange home page

If the user ID and password does not match the details available in the database, the system will display an error 'Invalid Username / Password'.

On successful entry of user ID and password, the system will redirect to the Account Security Question page as shown in Figure 5. You must give a correct security answer to login successfully into the system.



Account Security Question

Security Question

Favourite Colour

Security Answer

Verify

Figure 5: Account Security Question

On successful authentication, the system will log in to the GSMA Network Settings Exchange and the dashboard will be displayed. Go to section "[Access/Download MNO/MVNO Settings File](#)"

TAC User Access to GSMA Network Settings Exchange

OEMs having a TAC account need not register for GSMA Network Settings Exchange separately. Instead once you login to your IMEI Db account, you will be prompted to accept or reject access to GSMA Network Settings Exchange.

If you are responsible for GSMA Network Settings file management within your organisation you can accept the access, or you can reject the access and forward the instructions to a colleague who is responsible for liaising with operators to obtain their latest settings.

Accept access to GSMA Network Settings Exchange

Once you accept access from the prompt message, the system will check if your organisation is already registered to the service. You can select your organisation from the list that will be shown. Once you find your organisation you will be added as a user to the already registered GSMA Network Settings Exchange account. An email request will be sent to GSMA for approval. GSMA Helpdesk will review your request and activate your access.

If your organisation is not already registered, you can click on 'Click Here' to register link. The system will automatically register your organisation and activate your access to the service. Once activated, the system will prompt you to navigate to the new service or stay within the IMEI Db platform.

For future access, either log in through the IMEI Database using your IMEI Database account details. You will be able to see a link on the top 'Go to Network Settings Exchange'. Click on it to navigate to your NSX account. You will not be required to login again if you are already logged into the IMEI Database. To navigate between the two services, click 'Go to IMEI Database' from the top bar in the Network Settings Exchange account.

Reject access to NSX

Please reject access to the service if you are not responsible for operator network settings file management within your organisation. The system will not prompt you again in your future logins. However you can request access at any point in the future by submitting an application form using the link on the GSMA Network Settings Exchange home page.'

Forward access to another user

We encourage you to forward details of the service to colleagues within your organisation who are responsible for operator network settings file management but do not have access to the IMEI Db TAC allocation account. Once you click forward, the system will open the email client with default subject and mail content. Simply provide the To address and send the email.

The user will receive an email with the instructions and can click on the link provided in the email and register for an account to access MNO and MVNO settings.

Please note, NOT to remove the link from the email content displayed when forwarding the email.

15 days period to access Settings file

Once you register and gain access to the service, an email is sent to all the registered MNOs/MVNOs to review their access privilege to your organisation. The MNOs/MVNOs can approve or reject providing access to their files.

The MNOs/MVNOs are given 15 days, from the date of your registration, to do so.

The MNOs can also review OEM access every time they upload their settings.

You will see the note below when you go to download settings until this 15-day period.

Network Settings List

 **Note:**

- ▶ You will be able to access operator network settings only after 15 days from the date of your organisation approval to Network Settings Exchange. You have **14** days left!

Access/Download MNO/MVNO Settings File

To access the settings file, go to menu Settings Management and click Download Settings. The setting files that were provided access to your organisation by the MNOs will be listed. See image below

The network identifiers for the file can be viewed by clicking on the icon respective to the file under the Network Identifiers column

You can click on download icon respective to the file to download individual files, and the file will be downloaded to your system

To download multiple files at a time, check the boxes respective to the files and click the download button at the bottom of the list. Multiple files will be downloaded in a zip format.

To extract files within the .zip file, use a third- party tool, such as IZip (Mac) and 7-zip (Windows).

The settings file will be available in the .xls, .xlsx and .csv formats only.

Each file will have the cover page with network identifiers it supports.

For any clarification on the file, you can reach imeihelpdesk@gsm.com

Network Settings List

Note:

- ▶ To download multiple files at a time, select the files to be downloaded by selecting the checkbox next to the respective file or select the checkbox in the header row to select all files and click Download files (.zip) at the bottom.
- ▶ When you download multiple files, a compressed (.zip) file is created. If you cannot extract the .zip file with OS embedded unzip tool, use a third-party tool, such as IZip (Mac) and 7-zip (Windows)
- ▶ To download a single file, select the download icon under the download column respective to the file
- ▶ Use Search to filter results by Operator Name or Country

Search By: 1 - 10 of 73 [View All](#)

<input type="checkbox"/>	File Name	Operator Name	Country	Upload Date	Network Identifier	Download
<input type="checkbox"/>	3GPP-3GPP2 Multi Mode TAC_MEID#_w_SG_GHA_update_2019_10_17.xlsx	Vodafone Idea Limited	India	28 Oct 2019		
<input type="checkbox"/>	3GPP-3GPP2 Multi Mode TAC_MEID#_w_SG_GHA_update_2019_10_17.xlsx	Vodafone Idea Limited	India	28 Oct 2019		
<input type="checkbox"/>	3GPP-3GPP2 Multi Mode TAC_MEID#_w_SG_GHA_update_2019_10_17.xlsx	Vodafone Idea Limited	India	28 Oct 2019		
<input type="checkbox"/>	3GPP-3GPP2 Multi Mode TAC_MEID#_w_SG_GHA_update_2019_10_17.xlsx	Vodafone Idea Limited	India	25 Oct 2019		
<input type="checkbox"/>	3GPP-3GPP2 Multi Mode TAC_MEID#_w_SG_GHA_update_2019_10_17.xlsx	Vodafone Idea Limited	India	25 Oct 2019		
<input type="checkbox"/>	3GPP-3GPP2 Multi Mode TAC_MEID#_w_SG_GHA_update_2019_10_17.xlsx	Vodafone Idea Limited	India	25 Oct 2019		
<input type="checkbox"/>	61_15_22Oct19_179_D1_13Sep19_163_D1_13Aug19_94_D1_17Jul19_Project Plan Feb 2015.xlsx	MVNO_operator_1	Wallis and Futuna Islands	22 Oct 2019		
<input type="checkbox"/>	QA_Utilisation_01_NOV_2018 to 01_DEC_2018.xlsx	MVNO test2	Aruba	17 Oct 2019		
<input type="checkbox"/>	53_05_21Sep19_data.xlsx	Andorra Telecom S.A.U.	Andorra	17 Oct 2019		

[Next >](#) [Last >](#)

Figure 6: Select MNO / MVNO settings to be downloaded

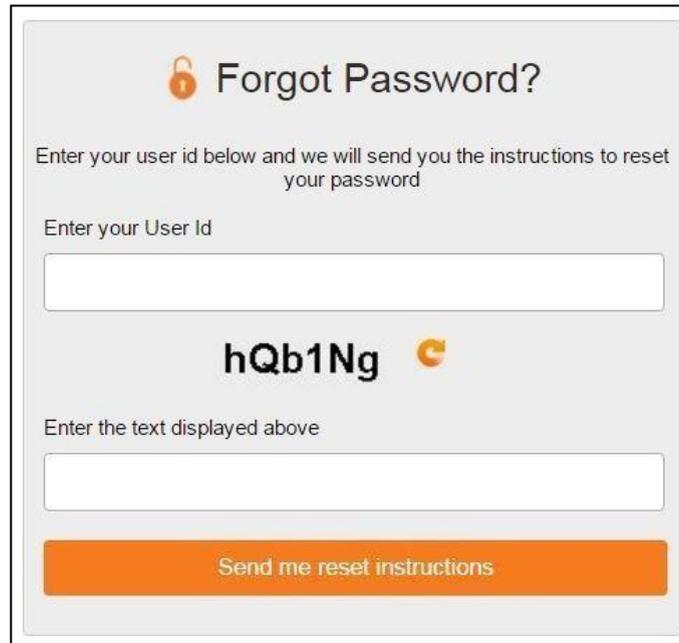
Forgot Password

If the password is forgotten or lost, it can be retrieved by selecting the Forgot Password option from the login screen as shown in Figure 7. The organisation Id for the account is required to begin the password retrieval process.

1. Go to [Network Settings Database homepage](#).
2. Click on Forgot Password link displayed below the login form
3. The system would change the display to enter organisation ID.
4. Provide the User ID in the 'User ID' field
5. As an additional security, a Captcha text must be entered as shown in Figure below.
6. Click 'Send me reset instruction'.

The screenshot displays the 'IMEI DATABASE' website interface. At the top left is the GSMA logo, and at the top right is a 'Contact' link. A large banner features the text: 'The world's first network settings hub for smooth, simple sharing of network settings information for mobile devices. GSMA NETWORK SETTINGS EXCHANGE'. Below the banner, a paragraph explains the service's development in collaboration with manufacturers and network operators. To the right is a login form with fields for 'User ID' and 'Password', a 'Forgot Password?' link, and a 'LOGIN' button with a right-pointing arrow. Below the login form is a 'SERVICE BENEFITS' section with three cards: 'ONE GLOBAL LOCATION' (Seamless access to the latest network settings for device manufacturers), 'TIME EFFICIENT' (No need to share network settings with individual device manufacturers), and 'OPTIMIZED CUSTOMER EXPERIENCE' (Customers receive the right settings, even if the device is not provisioned to a network). The 'HOW IT WORKS' section follows with three numbered steps: 1. Operators upload their latest settings to the GSMA Network Settings Exchange platform; 2. Manufacturers visit one location for seamless access to the latest network settings to host on their servers; 3. When non-provisioned devices access these settings, they will be configured correctly. The 'ONLINE APPLICATION PROCESS' section includes three cards: 'MOBILE NETWORK OPERATORS (MNOs) / MOBILE VIRTUAL NETWORK OPERATORS (MVNOs)' with an 'APPLY NOW' button; 'OEMs / CHIPSET PROVIDER' with a 'CREATE ACCOUNT' button; and 'PDF DOWNLOAD' with a download icon.

Figure 7: Forgot Password



Forgot Password?

Enter your user id below and we will send you the instructions to reset your password

Enter your User Id

hQb1Ng e

Enter the text displayed above

Send me reset instructions

Figure 8: Retrieve Password

Once you submit the information, the system verifies the details and sends the reset password instructions to your registered email id. The message 'Forgot Password request successful' will be displayed as shown in Figure 9.

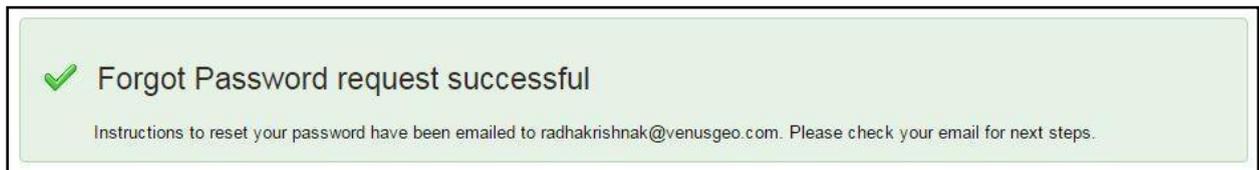


Figure 9: Forgot Password request success

On receiving the reset email, you can click on the reset link and change your password by following the instructions

Change Password

The user can also change the password anytime using the menu 'User Management > Change Password'. The screen below will be displayed

1. Enter the old password
2. Enter the new password
3. Enter the new password again in the Confirm Password field
4. Click Confirm.

The new password should follow the IMEI Database password rules mentioned on the password policy as shown in Figure 8.

Change Password

Old Password

New Password

Confirm New Password

[Confirm](#)

Note

- ▶ Your password has expired and you need to change it before you sign in to Network Settings Exchange
- ▶ Change your password to continue using Network Settings Exchange.

Password Policy

- At least 8 characters in length. Maximum 15.
- Contains at least 1 lowercase character (a through z)
- Contains at least 1 uppercase character (A through Z)
- Contains at least 1 numeric digit
- Contains at least 1 non-alphanumeric character (!, ~, ^, #, @, &, *, \$, (,), +, ?, /, \, _ , -)

Figure 10: Change Password

On successful change of new password, the system will display a confirmation message as shown in Figure 11.

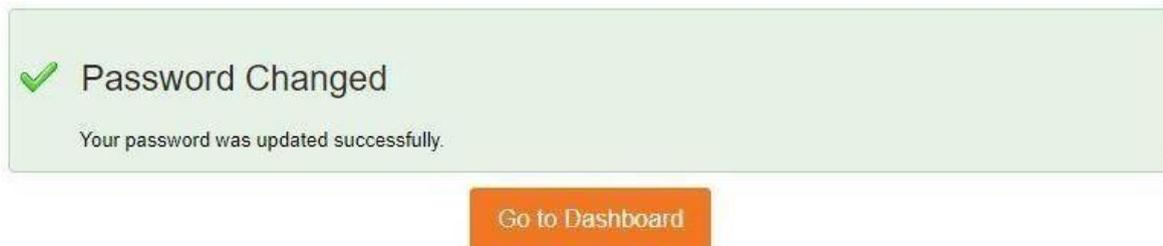


Figure 11: Password Changed

The password will be valid for a period of 60 days. After 60 days, the password will expire, and the user is required to change the password after login.